Atty. Dkt: USC 7064

CERTIFICATE OF TRANSMISSION

[X] Pursuant to 37 C.F.R. § 1.6(d), I hereby certify that this paper and all enclosures are being sent via facsimile on the date indicated below to the attention of Examiner Rebecca Prouty, Ph.D. at Facsimile No. 571-273-8300.

Dated: April 19, 2005 Name of Person Certifying: Sheila Badon

Printed Name: Sheila Badon

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Ebrahim ZANDI et al.

Serial No.: 10/749,949

Filed: February 19, 2002

For: **COMPOSITION AND METHOD FOR RECONSTITUTING IKB KINASE IN YEAST AND METHODS OF USING SAME**

Group Art Unit: 1652

Examiner: R.E. Prouty

AMENDMENT AND RESPONSE TO OFFICE ACTION

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

This paper is submitted in response to the Office Action issued on December 29, 2004 in connection with the above-identified application. A response to this Action originally was due March 29, 2005. Enclosed herewith is a Petition for a One Month Extension of Time and authorization to charge the amount of the fee due to the undersigned attorney's Deposit Account. In view of the filing of the Petition and payment of the fee, a response is now due April 29, 2005. Accordingly, this Response is timely filed.

The Amendments to the Specification begin on page 3 of this Reply.

The Listing of the Claims begins on page 4 of this Reply.

The Remarks begin on page 9 of this Reply.

The Conclusion appears on page 15 of this Reply.

I. AMENDMENTS

Please amend the paragraph appearing on pages 13 and 14 of the application as follows:

cDNA library sequences of the three subunits of IKK, γ, α, and β, were subcloned into Stratagene ™ pESC ~~Stratagene™ pESC~~ expression vectors with different promoters and selection markers. Each subunit has a promoter (e.g. galactose or alcohol dehydrogenase), a different selection marker (e.g. leucine, histidine, or tryptophan), and a tag (e.g. myc, HA, or FLAG). IKKα and IKKβ were subcloned into pESC ura and pESC trp vectors in which the galactose promoter region was replaced with the met promoter from the leu(met) vector. In these plasmids, the galactose (gal) promoter regulates the gene so the protein is only expressed when the yeast are induced with galactose. Likewise, with the methionine promoter, the presence of methionine represses expression of IKK, but expression is induced by removal of the methionine. Yeast were also transformed with plasmids in which the methionine (met) promoter regulates expression of IKK (7, 22). For IKKγ, the cDNA library was subcloned into a pESC 86(+) expression vector which induces constitutive expression under the alcohol dehydrogenase (ADH) promoter or was directly cloned into the leu(met) vector. Examples of plasmids and yeast strains used in the present invention are shown in Tables 1 and 2 respectively.